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- (71) Applicant (for all designated States except US): SPIROGEN LIMITED [GB/GB]; 79 George Street, Ryde Isle of Wight PO33 2JF (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): HOWARD, Philip Wilson [GB/GB]; 3 Westbourne Mews, The Maltings, St Albans Hertfordshire AL1 1LS (GB). KANG, Gyoung-Dong [KR/GB]; 59 Bridgewood Road, Worcester Park Surrey KT4 8XR (GB).
- (74) Agents: WATSON, Robert et al.; Mewburn Ellis LLP, York House, 23 Kingsway, London Greater London WC2B 6HP (GB).

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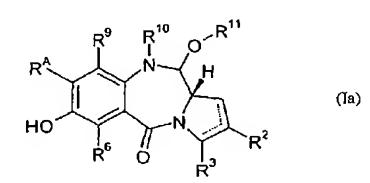
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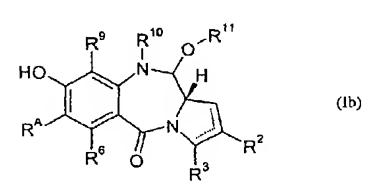
— with international search report

(88) Date of publication of the international search report: 5 January 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PYRROLOBENZODIAZEPINES AS KEY INTERMEDIATES IN THE SYNTHESIS OF DIMERIC CYTOTOXIC PYRROLOBENZODIAZEPINES





(57) Abstract: Compounds and a method of synthesis of compounds of formula (Ia) or (Ib): and salts, solvates, and chemically protected forms thereof, wherein the dotted lines indicate the optional presence of a double bond between C1 and C2 or C2 and C3; R<sup>2</sup> and R<sup>3</sup> are independently selected from -H, =O, =CH<sub>2</sub>, -CN, -R, OR, halo, =CH-R, O-SO<sub>2</sub>-R, CO<sub>2</sub>R and COR; R<sup>10</sup> is a carbamate-based nitrogen protecting group; and R<sup>11</sup> is an oxygen protecting group.

Internation: olication No PCT/GB2005/000770

A. CLASSI IPC 7	FICATION OF SUBJECT MATTER C07D519/00 C07D487/04 A61K31/	55 A61P35/00						
According to	o International Patent Classification (IPC) or to both national classific	eation and IPC						
B. FIELDS	SEARCHED							
Minimum documentation searched (classification system followed by classification symbols)  IPC 7 C07D A61K								
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched								
Electronic d	ata base consulted during the International search (name of data be	ase and, where practical, search terms used)						
EPO-Internal, WPI Data, CHEM ABS Data								
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT							
Category °	Citation of document, with indication, where appropriate, of the re	levant passages	Relevant to claim No.					
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X Furt	her documents are listed in the continuation of box C.	X Patent family members are listed in	annex.					
	itegories of cited documents :	"T" later document published after the Inter or priority date and not in conflict with t	national filing date					
consid	"A" document defining the general state of the art which is not cited to understand the principle or theory underlying the considered to be of particular relevance invention							
filling o		"X" document of particular relevance; the cleannot be considered novel or cannot.	be considered to					
"L" document which may throw doubts on priority claim(s) or involve an inventive step when the document is taken alone which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention								
"O" docum	"O" document referring to an oral disclosure, use, exhibition or document is combined with one or more other such docu-							
"P" docume	in the est							
Date of the	actual completion of the international search	Date of mailing of the international sear	ch report					
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Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  Authorized officer								
NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016		Fritz, M						

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C/Continu	tion) DOCUMENTS CONSIDERED TO BE DELEMANT	PC1/GB200	<del></del>
Category o	cltation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
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X	GREGSON S J ET AL: "Linker Length Modulates DNA Cross-Linking Reactivity and Cytotoxic Potency of C8/C8' Ether-Linked C2-exo-Unsaturated Pyrrolo'2,1-c!'1,4!benzodiazepine (PBD) Dimers" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 47, 30 January 2004 (2004-01-30), pages 1161-1174, XP002316295 ISSN: 0022-2623 Cpds. 3a-3d, 4a-4b, 21a,21b		8-25
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A	US 2003/187253 A1 (WANG JEH-JENG) 2 October 2003 (2003-10-02) the whole document		1-32
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Interne.....al application No. PCT/GB2005/000770

Box II Obs	servations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)
This Internati	ional Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
	ims Nos.: ause they relate to subject matter not required to be searched by this Authority, namely:
beca	ims Nos.: ause they relate to parts of the International Application that do not comply with the prescribed requirements to such extent that no meaningful International Search can be carried out, specifically:
bec	ims Nos.: ause they are dependent clalms and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Ob:	servations where unity of invention is lacking (Continuation of Item 3 of first sheet)
This internati	ional Searching Authority found multiple inventions in this international application, as follows:
se	e additional sheet
	•
1. X As a	all required additional search fees were timely paid by the applicant, this International Search Report covers all rchable claims.
2. As a of a	all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment any additional fee.
3. As c	only some of the required additional search fees were timely paid by the applicant, this International Search Report ers only those claims for which fees were paid, specifically claims Nos.:
4. No rest	required additional search fees were timely paid by the applicant. Consequently, this International Search Report is tricted to the invention first mentioned in the claims; It is covered by claims Nos.:
Remark on I	Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-7,8(part);10;11-32(part)

Compounds of formula IIIa; intermediates (Ia), compositions, methods, uses thereof; process for their preparation

2. claims: 1-7,8(part);9;11-32(part)

Compounds of formula IIIb, intermediates (Ib), compositions, methods, uses thereof; process for their preparation

Information on patent family members

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